

Limpiadores de Superficies Duras Hard Surface Cleaners (HSC)

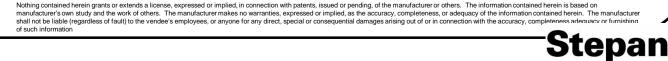
Jackie Pytel – **Stepan Company**

Presentado por: Andrés F. Sánchez Hormaza

Stepan Colombia

2010











Resumen

- Superficies y Mugres
- Tipos de Productos
- Ingredientes claves y sus funciones
- Formulaciones de HSC











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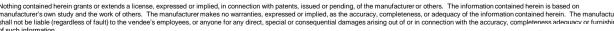
Surperficies

- Porcelana
- Acero Inoxidable
- Cerámica
- Madera
- Agregados/Comprimidos
- Vidrio
- Plásticos
- Fórmica
- Mármol
- Concreto
- Metales

Mugres

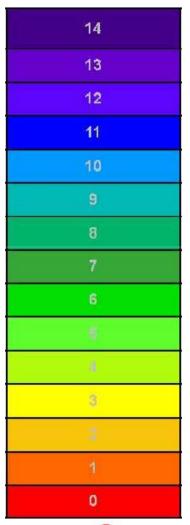
- Jabones residuales
- Depósitos de Limo
- Depósito
- Grasa
- Grasa pegada en hornos
- Lubricantes
- Pintura
- Alimentos
- Polvo
- Sangre
- Excrementos







Rango de Productos por tipos de pH



- Limpiador líquido de drenajes
- Desengrasante de Trabajo Pesado
- Lavaloza automático
- Limpiadores de baño conteniendo blanqueadores
- Desengrasantes
- Limpiadores multipropósito
- Limpiadores de vidrios
- Limpiadores desinfectantes neutros
- Limpiadores ácidos de baños
- Limpiadores de sanitarios



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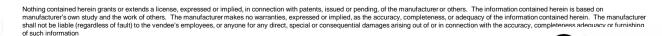


Limpiadores de Superficies Domésticos

- Principal uso en la cocina y baños
- Atributos
 - Fácil de usar
 - Efectivos
 - Relativamente seguros
 - Elimina los gérmenes
- Formas de producto
 - Listos para usar, sin diluir
 - Diluibles, típicamente 1-2 onzas por galón to 1 gallon
 - Toallas











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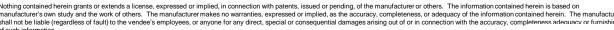
Industrial e Institucional (I&I)

- Industrial
 - Limpieza de Equipo
 - Desengrasante de motores
 - Removedores de Grafitis
 - Limpieza de cuarto completo
 - Limpieza de Partes

- Institucional
 - Restaurantes
 - Hoteles
 - Hospitales
 - Escuelas
 - Almacenes al detal

- Algunas Formulaciones son simlares a las domésticas
- Contienen más: Surfactantes, Solventes, Cargas
- •Múltiples diluciones dependiendo de la mugre/sustrato (superficie)





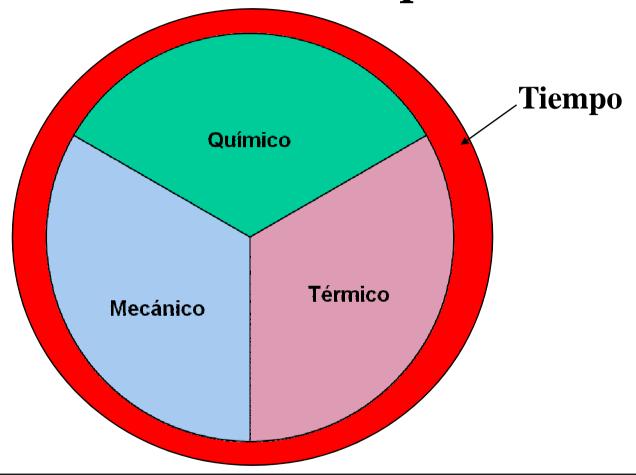




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Mecanismo de Limpieza



Si se cambia una porción de la torta, las otras deben cambiar también para mantener igual limpieza.





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Ingrediente de HSC claves

- Agua
- Surfactantes
- Cargas
- Solventes
- Hidrótropos
 - Sulfonatos de cadena corta (no son surfactantes)
 - Alcoholes de cadena corta o glicoles
- Estética
 - Fragancia
 - Espesantes
 - Colorantes
 - Preservantes



"Triada de Desempeño"



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Ingrediented Claves Agua

- Productos listos para usar muy diluidos
- Concentrados —se diluyen con agua de grifo en el lugar de uso
- Buen solvente polar los otros ingredientes se adicionan para mejorar los proceso de limpieza
 - Limpieza más rápida
 - Limpieza más fácil
 - Menores temperaturas







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Ingredientes claves Atributos de losSurfactantes

- Humectación
- Acople
- Emulsificación
- Remoción de mugre
- Poder dispersante
- Espumación controlada
- Tolerancia a las aguas duras
- Estable bajo las condiciones de la fórmula (pH, blanqueadores, etc)







Tipos de Surfactantes

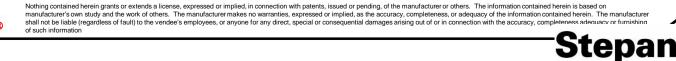
Aniónicos

- Alquilbenceno Sulfonato Lineal (LAS)
- Alcohol sulfatos (AS)
- Alkane sulfonatos (PAS)
- Alcohol éter sulfatos (AES)
- Metil éster sulfonatos (MES, SME)
- Alfa Olefin Sulfonatos de Sodio (AOS)

No iónicos

- Alcohol etoxilados (AE)
- Alkyl poliglucósidos (APG)
- Alcanolamidas (Amidas)
- Óxidos de Amina (AO)





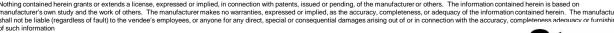




Ingredientes Claves Atributos de los solventes

- Solubilizar mugres
- Penetrar grasas
- Disminuir viscosidad de las mugres
- Habilidad de "Coupling"
- Humectación
- Estabilidad y claridad de la formulación
- Modificar la velocidad de evaporación





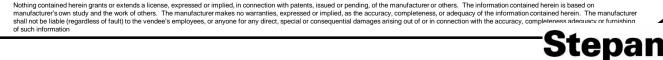




Tipos de Solventes

- Glicol Éters
 - Ejem: Dietielen Glicol Butil Éter, Dipropilen Glicol n-Butil Éter
- Metil Ésteres: STEPOSOL
- Terpenos
 - Ejem: Aceite de pino, d-limoneno
- Alcoholes de cadena corta y glicoles
 - Ejem: Etanol, Propilen Glicol
- Para usos industriales: solventes más agresivos STEPOSOL









Ingrediente Claves Atributos de las Cargas

Incluye agentes quelantes y ajustadores de pH

- Alcalinidad
 - Saponificación
 - Neutralización
- Suavizado de Agua
- Suspensión de mugres
- Tamponamiento
- Disolver mugres
- Abrasión
- Inhibidores de Corrosión

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Cargas, Agentes Quelantes, Ajustadores de pH

Cargas /Alcanilidad

- Silicatos
- Carbonatos
- Fosfatos
- MEA/TEA

Quelantes

- EDTA
- Citratos
- Poliacrilatos
- Nuevas moléculas "verdes"

Ajustadores

- NaOH/KOH
- Ácidos Inorgánicos
- Ácidos Orgánicos





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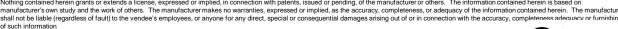
Limpiadores Antimicrobiales

- Debe estar registrados con la autoridad (INVIMA, EPA,
 - Activos antimicrobiales (Stepan BTC amonios cuaternam
 - Ingredientes inertes
 - Fórmula final
 - Debe usar ingredientes específicos registrados y con cantidades mínimas
- Enfoque en eliminar microbios durante la limpieza.
- Es costoso y toma tiempo la aprobación



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FORMULACIONES DE LIMPIADORES DE SUPERFICIES DURAS



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Formulación Institucional para Limpieza de Restaurante de Comidas Rápidas

- Fórmula Genérica (activos)
 - 8% K₂CO₃
 - 5% EDTA
 - 5% Xileno Sulfonato de Sodio
 - 3% mezcla de dos alcoholes etoxilados
 - 1% KOH
- Concentración de Uso
 - Diluir 1:9 para remover grasa fresca en acero inoxidable
 - Diluir 1:3 para limpiar fritadoras y hervidoras
 - Diluir 1:1 para aceite de motor en las áreas de "drive-thru"



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Limpiador listo para usar en spray

<u>Componente</u>	Peso %
Alcohol Éter Sulfato (60%)	1.0
Alcohol Etoxilado	2.0
NaOH (50%)	1.0
Metasilicato de Sodio (Anhidro)	1.0
Glicol Éter	3.0
EDTA	0.6
Agua, Colorante, Fragancia	to 100.0

Apariencia Líquido Transparente pH 12 Sólidos 4.5 % Uso Tal cual en Spray





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Removedor Industrial "Verde"*

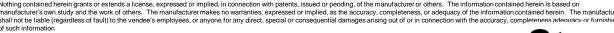
Componentes	Wt %	<u>Función</u>
Steposol® SC	50.0	Solvente
Bio-Soft® EC-690	10.0	Emulsificante
Citrus Burst 7 (Florida Chemical Co.)	40.0	Solvent

Apariencia 25 °C Líquido Transparente Amarillo

Densidad (lbs/gal) 7.66 Flash Point F, (PMCC) 123

*Solamente uso industrial por los VOC.









Limpiador de Vidrios Verde

Componentes	Peso %	<u>Función</u>
Etanol (via fermentación)	0.92	Solvente Evaporador
BIO-TERGE® PAS-8S (38%)	2.0	Agente Anti-Película
BIO-SOFT® EC-639 (90%)	0.22	Humectación
Agua, Colorante, Fragrancia	qs to 100.0	Estética

Apariencia Líquido transparente Sólidos 1% Uso Tal cual en Spray



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Limpiador Trabajo Pesado Ácido para Baños

Componentes	Peso %	
Ácido Glicólico	2.5	
Ácido Sulfámico	2.5	
Óxido de Lauramina (30%)	5.0	
Propilen Glicol n-Butil Éter	1.0	
Agua, Colorante, Fragrancia	to 100.0	

Apariencia Líquido Transparente
pH (Tal cual) 1.0
Sólidos 13 %
Uso Tal cual o Diluido según sea requerido



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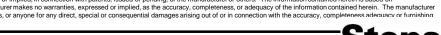


Limpiador de Baño con Blanqueador

Componentes	Peso%
Hidróxido de Sodio (50%)	1.0
Metasilicato de Sodio Pentahidratado	0.5
Óxido de Lauramina (30%)	5.0
Hipoclorito de Sodio (15%)	14.0
Agua, Fragrancia	to 100.0

Apariencia Líquido Transparente pH (Tal cual) 13 Sólidos 3 % Uso Tal cual en Spray









Limpiador Multipropósito Concentrado

Componentes	Peso %
Alcohol Etoxilado (C ₁₁ 9 EO)	7.0
Alquilbenceno Sulfonato Lineal (60%)	5.6
Citrato de Sodio	6.5
Carbonato de Sodio	4.0
Xilen Sulfonato de Sodio (40%)	8.0
EDTA (37%)	3.0
Agua, Fragrancia, Colorante	to 100.0

Apariencia Líquido Transparente pH 10.5 Sólidos 32 % Uso 2-4 onzas./gal.





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Limpiador de Sanitarios Viscoso

Componentes	Peso %	
Ácido Clorhídrico Concentrado (36%)	25.0	
Amina Grasa (Tallow)(2EO)	4.0	
Agua, Colorante, Perfume	to 100.0	

Apariencia Líquido Transparente Viscoso

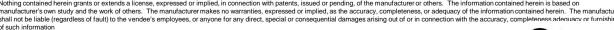
pH < 1,0

Sólidos 12 %

Viscosity @ 25°C 5000 cps

Use Tal cual









Métodos de Evaluación

Propiedades Generales de Surfactantes

- Shake Foam Test (Espuma)
- Ross-Miles Test
- Draves Wetting Test
- Viscosity vs Salt Curves
- Emulsification Screening
- Gardner Straightline
- Product Stability

Evaluación de Lavaloza Manual

- Mini-plate Test
- Blender Foam Test
- Shell Soil Titration Test
- Baumgartner Grease Removal Test



Shell Test



Test Mini-Platos



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¡Muchas Gracias!



